

## Information Processing in Sensor Networks (IPSN '03)

### Second International Workshop

at the Palo Alto Research Center (PARC)

Palo Alto, California, USA

April 22-23, 2003

### Poster Presentations

*Scalable Decentralized Control for Sensor Networks via Distributed Lattices*

Baruch Awerbuch, Johns Hopkins University

Jonathan Stanton, George Washington University

*Coverage, Exploration and Deployment by a Mobile Robot and Communication Network*

Maxim Batalin, University of Southern California

Gaurav Sukhatme, University of Southern California

*Distance Based Decision Fusion In A Distributed Wireless Sensor Network*

Marco Duarte, University of Wisconsin – Madison

Yu-Hen Hu, University of Wisconsin – Madison

*Maximum Mutual Information Principle for Dynamic Sensor Query Problems*

Emre Ertin, The Ohio State University

John W. Fisher III, MIT Artificial Intelligence Laboratory

Lee C. Potter, The Ohio State University

*A Formalism for the Analysis and Design of Time and Path Diversity Schemes in Wireless Sensor Networks*

Martin Haenggi, University of Notre Dame

*Sensor Placement for Isotropic Source Localization*

Tamir Hegazy, Georgia Institute of Technology

George Vachtsevanos, Georgia Institute of Technology

*Mobicast: Just-in-Time Multicast for Sensor Networks under Spatiotemporal Constraints*

Qingfeng Huang, Washington University in Saint Louis

Chenyang Lu, Washington University in Saint Louis

Gruia-Catalin Roman, Washington University in Saint Louis

*Sentry-Based Power Management in Wireless Sensor Networks*

Jonathan Hui, Dept. of ECE, Carnegie Mellon University

Zhiyuan Ren, Dept. of ECE, Carnegie Mellon University

Bruce Krogh, Dept. of ECE, Carnegie Mellon University

*Energy Aware Multipath Routing for Uniform Resource Utilization in Sensor Networks*

Neha Jain, University of Cincinnati

Dilip K. Madathil, University of Cincinnati

Dharma P. Agrawal, University of Cincinnati

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#### *Efficient and Fault-tolerant Feature Extraction in Wireless Sensor Networks*

Bhaskar Krishnamachari, University of Southern California

Sitharama Iyengar, Louisiana State University

#### *Event Detection Services using Data Service Middleware in Distributed Sensor Networks*

Shuoqi Li, Department of Computer Science, University of Virginia

Sang H. Son, Department of Computer Science, University of Virginia

John A. Stankovic, Department of Computer Science, University of Virginia

#### *Meteorology and Hydrology in Yosemite National Park: A Sensor Network Application*

Jessica Lundquist, Scripps Institution of Oceanography, United States Geological Survey

Daniel Cayan, Scripps Institution of Oceanography, United States Geological Survey

Michael Dettinger, Scripps Institution of Oceanography, United States Geological Survey

#### *Detection, Classification, and Collaborative Tracking of Multiple Targets Using Video Sensors*

Peshala Pahalawatta, Northwestern University

Dejan Depalov, Northwestern University

Thrasyvoulos Pappas, Northwestern University

Aggelos Katsaggelos, Northwestern University

#### *Decentralised Ground Target Tracking with Heterogeneous Sensing Nodes on Multiple UAVs*

Matthew Ridley, Australian Centre for Field Robotics

Eric Nettleton, Australian Centre for Field Robotics

Salah Sukkeriah, Australian Centre for Field Robotics

Hugh Durrant-Whyte, Australian Centre for Field Robotics

Ali Goktogan, Australian Centre for Field Robotics

Graham Brooker, Australian Centre for Field Robotics

#### *Power-Aware Acoustic Processing*

Ronald Riley, University of Southern California Information Sciences Institute

Brian Schott, University of Southern California Information Sciences Institute

Joseph Czarnaski, University of Southern California Information Sciences Institute

Sohil Thakkar, University of Maryland, College Park

#### *Distributed Environmental Monitoring Using Random Sensor Networks*

Slobodan Simic, University of California at Berkeley

Shankar Sastry, University of California at Berkeley

#### *Characterization of Location Error in Wireless Sensor Networks: Analysis and Applications*

Sasha Slijepcevic, UCLA

Seapahn Megerian, UCLA

Miodrag Potkonjak, UCLA

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#### *A Distributed Algorithm for Waking-up in Heterogeneous Sensor Networks*

Akis Spyropoulos, University of Southern California

Cauligi Raghavendra, University of Southern California

Victor Prasanna, University of Southern California

#### *Location Tracking in a Wireless Sensor Network by Mobile Agents and Its Data Fusion Strategies*

Yu-Chee Tseng, Department of Computer Science and Information Engineering, National Chiao Tung University

Sheng-Po Kuo, Department of Computer Science and Information Engineering, National Chiao Tung University

Hung-Wei Lee, Department of Computer Science and Information Engineering, National Chiao Tung University

Chi-Fu Huang, Department of Computer Science and Information Engineering, National Chiao Tung University

#### *Acoustic Target Tracking Using Wireless Sensor Devices*

Qixin Wang, Department of Computer Science, UIUC

Weipeng Chen, Department of Computer Science, UIUC

Rong Zheng, Department of Computer Science, UIUC

Kihwal Lee, Department of Computer Science, UIUC

Lui Sha, Department of Computer Science, UIUC

#### *A Robust Data Delivery Protocol for Large Scale Sensor Networks*

Fan Ye, Computer Science Department, UCLA

Gary Zhong, Computer Science Department, UCLA

Songwu Lu, Computer Science Department, UCLA

Lixia Zhang, Computer Science Department, UCLA